



SEQUENCE LISTING

<110> Lawton, Robert
Mermer, Brion
Francoeur, Greg

<120> Specific Binding Protein for Treating
Canine Allergy

<130> 01-1275A

<140> 09/281,760

<141> 1999-03-30

<150> 09/058,331

<151> 1998-04-09

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<170> FastSEQ for Windows Version 3.0

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<213> Canis familiaris

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<223> Xaa = any amino acid

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Leu Xaa Xaa Tyr Arg Xaa Xaa Leu
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Thr Leu Leu Glu Tyr Arg Met
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Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys
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Cys Xaa Xaa Pro His Xaa Xaa Xaa Cys
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Ser Val Thr Leu Cys Pro Asn Pro His Ile Pro Met Cys Gly Gly Gly
1 5 10 15

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Ser Ala Cys Pro Asn Pro His Asn Pro Tyr Cys Gly Gly Gly
1 5 10

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Val Thr Leu Cys Pro Asn Pro His Ile Pro Met Cys
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Ser Val Thr Leu Cys Pro Asn Pro His Ile Pro Met Cys Gly Gly Gly
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Lys

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Val Asn Leu Thr Trp Ser Arg
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Gly Met Thr Leu Thr Trp Ser Arg Glu Asn Gly
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Gly Met Asn Leu Thr Trp Ser Arg Glu Ser Lys
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Cys Ser Asn Pro His Ile Thr Gln Cys
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Cys Thr Asn Pro His Asn Pro Tyr Cys
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Cys Pro Asn Pro His Asn Pro Tyr Cys
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Cys His Pro His Leu Pro Lys Arg Cys
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Tyr Cys Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg Ser
1 5 10 15
Ile

<210> 27

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<213> Homo sapiens

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Gln Cys Arg Val Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser
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Thr

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<211> 17

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<213> Cercopithecus aethiops

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Gln Cys Arg Val Thr His Pro His Leu Pro Arg Ala Leu Val Arg Ser
1 5 10 15
Thr

<210> 29

<211> 17

<212> PRT

<213> Felis catus

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Gln Cys Lys Val Thr His Pro Asp Leu Pro Leu Val Ile Val Arg Ser
1 5 10 15
Ile

<210> 30

<211> 17

<212> PRT

<213> Sus scrofa

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Tyr Cys Asn Val Thr His Pro Asp Leu Pro Lys Pro Ile Leu Arg Ser

1 5 10 15
Ile

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Gln Cys Ile Val Asp His Pro Asp Phe Pro Ile Val Arg Ser Ile
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<212> PRT
<213> Equus caballus

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Lys Cys Thr Val Ser His Pro Asp Leu Pro Arg Glu Trp Arg Ser Ile
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<210> 33
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aggcactgac actggncctg tccccacagc caccagccag gacctg tct gtg ttc	175		
	Ser Val Phe		
	1		
ccc ttg gcc tcc tgc tgt aaa gac aac atc gcc agt acc tct gtt aca	223		
Pro Leu Ala Ser Cys Cys Lys Asp Asn Ile Ala Ser Thr Ser Val Thr			
5	10	15	
ctg ggc tgt ctg gtc acc ggc tat ctc ccc atg tcg aca act gtg acc	271		
Leu Gly Cys Leu Val Thr Gly Tyr Leu Pro Met Ser Thr Thr Val Thr			
20	25	30	35
tgg gac acg ggg tct cta aat aag aat gtc acg acc ttc ccc acc acc	319		
Trp Asp Thr Gly Ser Leu Asn Lys Asn Val Thr Thr Phe Pro Thr Thr			
40	45	50	
ttc cac gag acc tac ggc ctc cac agc atc gtc agc cag gtg acc gcc	367		
Phe His Glu Thr Tyr Gly Leu His Ser Ile Val Ser Gln Val Thr Ala			
55	60	65	
tcg ggc gag tgg gcc aaa cag agg ttc acc tgc agc gtg gct cac nnt	415		
Ser Gly Glu Trp Ala Lys Gln Arg Phe Thr Cys Ser Val Ala His Xaa			
70	75	80	
gag tcc acc gcc atc aac aag acc ttc agt gct aancagggt tnnntggcca	468		
Glu Ser Thr Ala Ile Asn Lys Thr Phe Ser Ala			
85	90		
catgacactg gagggagaag ggacaggctg gngaatgcgc catggctgg aacggccagc	528		
anatgtgggg ctggggctga cacatgagtc ccgtgggctn agagacacca ctgccacatg	588		
gctgcctcta ctcttagca tgt gcc tta aac ttc att ccg cct acc gtg aag	640		
Cys Ala Leu Asn Phe Ile Pro Pro Thr Val Lys			
95	100	105	
ctc ttc cac tcc tgc aac ccc gtc ggt gat acc cac acc acc atc	688		
Leu Phe His Ser Ser Cys Asn Pro Val Gly Asp Thr His Thr Ile			
110	115	120	
cag ctc ctg tgc ctc atc tct ggc tac gtc cca ggt gac atg gag gtc	736		
Gln Leu Leu Cys Leu Ile Ser Gly Tyr Val Pro Gly Asp Met Glu Val			
125	130	135	
atc tgg ctg gtg gat ggg caa aag gct aca aac ata ttc cca tac act	784		
Ile Trp Leu Val Asp Gly Gln Lys Ala Thr Asn Ile Phe Pro Tyr Thr			
140	145	150	

gca ccc ggc aca aag gag ggc aac gtg acc tct acc cac agc gag ctc Ala Pro Gly Thr Lys Glu Gly Asn Val Thr Ser Thr His Ser Glu Leu 155 160 165	832
aac atc acc cag ggn nng tgn gta tcc caa aaa acc tac acc tgc cag Asn Ile Thr Gln Gly Xaa Xaa Val Ser Gln Lys Thr Tyr Thr Cys Gln 170 175 180 185	880
gtc acc tat caa ggc ttt acc ttt aaa gat gag gct cgc aag tgc tca Val Thr Tyr Gln Gly Phe Thr Phe Lys Asp Glu Ala Arg Lys Cys Ser 190 195 200	928
gag atggccccc tgcgtcccccag aaacccagat gcgcgaggct cagagatgag Glu	981
ggccaaggca cgccctcatg cagcctctca cacactgcag ag tcc gac ccc cga Ser Asp Pro Arg 205	1035
ggc gtg agc agc tac ctg agc cca ccc agc ccc ctt gac ctg tat gtc Gly Val Ser Ser Tyr Leu Ser Pro Pro Ser Pro Leu Asp Leu Tyr Val 210 215 220	1083
cac aag gcg ccc aag atc acc tgc ctg gta gtg gac ctg gcc acc atg His Lys Ala Pro Lys Ile Thr Cys Leu Val Val Asp Leu Ala Thr Met 225 230 235	1131
gaa ggc atg aac ctg acc tgg tac cgg gag agc aaa gaa ccc gtg aac Glu Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys Glu Pro Val Asn 240 245 250	1179
ccg gtc cct ttg aac aag gat cac ttc aat ggg acg atc aca gtc Pro Val Pro Leu Asn Lys Lys Asp His Phe Asn Gly Thr Ile Thr Val 255 260 265 270	1227
acg tct acc ctg cca gtg aac acc aat gac tgg atc gag ggc gag acc Thr Ser Thr Leu Pro Val Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr 275 280 285	1275
tac tat tgc agg gtg acc cac ccg cac ctg ccc aag gac atc gtg cgc Tyr Tyr Cys Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg 290 295 300	1323
tcc att gcc aag gcc cct ggt gagccacggg cccaggggag gtggggggc Ser Ile Ala Lys Ala Pro Gly 305	1374
ctcctgancc ggagcctggg ctgacccac acctatccac aggc aag cgt gcc ccc Lys Arg Ala Pro 310	1430
ccg gat gtg tac ttg ttc ctg cca ccg gag gag gag cag ggg acc aag Pro Asp Val Tyr Leu Phe Leu Pro Pro Glu Glu Gln Gly Thr Lys 315 320 325	1478
gac aga gtc acc ctc acg tgc ctg atc cag aac ttc ttc ccc gag gac	1526

Asp Arg Val Thr Leu Thr Cys Leu Ile Gln Asn Phe Phe Pro Glu Asp				
330	335	340	345	
att tca gtg caa tgg ctg cga aac gac agc ccc atc cag aca gac cag				1574
Ile Ser Val Gln Trp Leu Arg Asn Asp Ser Pro Ile Gln Thr Asp Gln				
350		355	360	
tac acc acc acg ggg ccc cac aag gtc tcg ggc tcc agg cct gcc ttc				1622
Tyr Thr Thr Gly Pro His Lys Val Ser Gly Ser Arg Pro Ala Phe				
365	370	375		
ttc atc ttc agt cgc ctg gtg gac tgg gag cag aaa aac aaa ttc acc				1670
Phe Ile Phe Ser Arg Leu Val Asp Trp Glu Gln Lys Asn Lys Phe Thr				
380	385	390		
tgc caa gtg gtg cat gag gcg ctg tcc ggc tct agg atc ctc cag aaa				1718
Cys Gln Val Val His Glu Ala Leu Ser Gly Ser Arg Ile Leu Gln Lys				
395	400	405		
tgg gtg tcc aaa acc ccc ggt aaa tggatgcccac cctcctcccg ccggccaccc				1772
Trp Val Ser Lys Thr Pro Gly Lys				
410	415			
ccagggctcc acctgctggg gcaggggagg ggggctggca agaccctcca tctatccttn				1832
tcaataaaaca				1842

C <210> 34<211> 94<212> PRT<213> Canis familiaris

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<222> (83)..(83)

<223> The 'Xaa' at location 83 stands for Asn, Ser, Thr, Ile, Asp, Gly, Ala, Val, His, Arg, Pro, Leu, Tyr, Cys, or Phe.

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<220>

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<222> (413)..(414)

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Ser Val Phe Pro Leu Ala Ser Cys Cys Lys Asp Asn Ile Ala Ser Thr
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Ser Val Thr Leu Gly Cys Leu Val Thr Gly Tyr Leu Pro Met Ser Thr
20 25 30

Thr Val Thr Trp Asp Thr Gly Ser Leu Asn Lys Asn Val Thr Thr Phe
35 40 45

Pro Thr Thr Phe His Glu Thr Tyr Gly Leu His Ser Ile Val Ser Gln
50 55 60

Val Thr Ala Ser Gly Glu Trp Ala Lys Gln Arg Phe Thr Cys Ser Val
65 70 75 80

Ala His Xaa Glu Ser Thr Ala Ile Asn Lys Thr Phe Ser Ala

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<222> (81)..(81)
<223> The 'Xaa' at location 81 stands for Lys, Arg, Thr, Met, Glu, Gly, Ala, Val, Gln, Pro, Leu, a stop codon, Trp, or Ser.

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<223> The 'Xaa' at location 82 stands for a stop codon, Trp, or Cys.

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<223> "n" stands for any nucleic acid

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Cys Ala Leu Asn Phe Ile Pro Pro Thr Val Lys Leu Phe His Ser Ser
1 5 10 15

Cys Asn Pro Val Gly Asp Thr His Thr Thr Ile Gln Leu Leu Cys Leu
20 25 30

Ile Ser Gly Tyr Val Pro Gly Asp Met Glu Val Ile Trp Leu Val Asp
35 40 45

Gly Gln Lys Ala Thr Asn Ile Phe Pro Tyr Thr Ala Pro Gly Thr Lys
50 55 60

Glu Gly Asn Val Thr Ser Thr His Ser Glu Leu Asn Ile Thr Gln Gly
65 70 75 80

Xaa Xaa Val Ser Gln Lys Thr Tyr Thr Cys Gln Val Thr Tyr Gln Gly
85 90 95

Phe Thr Phe Lys Asp Glu Ala Arg Lys Cys Ser Glu
100 105

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<400> 36

Ser Asp Pro Arg Gly Val Ser Ser Tyr Leu Ser Pro Pro Ser Pro Leu
1 5 10 15

Asp Leu Tyr Val His Lys Ala Pro Lys Ile Thr Cys Leu Val Val Asp
20 25 30

Leu Ala Thr Met Glu Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys
35 40 45

Glu Pro Val Asn Pro Val Pro Leu Asn Lys Lys Asp His Phe Asn Gly
50 55 60

Thr Ile Thr Val Thr Ser Thr Leu Pro Val Asn Thr Asn Asp Trp Ile
65 70 75 80

Glu Gly Glu Thr Tyr Tyr Cys Arg Val Thr His Pro His Leu Pro Lys
85 90 95

Asp Ile Val Arg Ser Ile Ala Lys Ala Pro Gly
100 105

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<213> Canis familiaris

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<223> "n" stands for any nucleic acid

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<223> "n" stands for any nucleic acid

<400> 37

Lys Arg Ala Pro Pro Asp Val Tyr Leu Phe Leu Pro Pro Glu Glu Glu
1 5 10 15

Gln Gly Thr Lys Asp Arg Val Thr Leu Thr Cys Leu Ile Gln Asn Phe
20 25 30

Phe Pro Glu Asp Ile Ser Val Gln Trp Leu Arg Asn Asp Ser Pro Ile
35 40 45

Gln Thr Asp Gln Tyr Thr Thr Gly Pro His Lys Val Ser Gly Ser
50 55 60

Arg Pro Ala Phe Phe Ile Phe Ser Arg Leu Val Asp Trp Glu Gln Lys
65 70 75 80

Asn Lys Phe Thr Cys Gln Val Val His Glu Ala Leu Ser Gly Ser Arg
85 90 95

Ile Leu Gln Lys Trp Val Ser Lys Thr Pro Gly Lys
100 105

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<212> DNA
<213> Canis familiaris

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gaa ggc atg aac ctg acc tgg tac cgg gag agc aaa gaa ccc gtg aac
Glu Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys Glu Pro Val Asn
1 5 10 15

ccg gtc cct ttg aac aag aag gat cac ttc aat ggg acg atc aca gtc
Pro Val Pro Leu Asn Lys Lys Asp His Phe Asn Gly Thr Ile Thr Val
20 25 30

acg tct acc ctg cca gtg aac acc aat gac tgg atc gag ggc gag acc
Thr Ser Thr Leu Pro Val Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr
35 40 45

tac tat tgc agg gtg acc cac ccg cac ctg ccc aag gac atc gtg cgc
Tyr Tyr Cys Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg
50 55 60

tcc att gcc aag gcc cct ggt
Ser Ile Ala Lys Ala Pro Gly
65 70

6
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<212> PRT
<213> Canis familiaris

<400> 39
Glu Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys Glu Pro Val Asn
1 5 10 15

Pro Val Pro Leu Asn Lys Lys Asp His Phe Asn Gly Thr Ile Thr Val
20 25 30

Thr Ser Thr Leu Pro Val Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr
35 40 45

Tyr Tyr Cys Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg
50 55 60

Ser Ile Ala Lys Ala Pro Gly
65 70